

MOUNTING INSTRUCTIONS

RSV PLUS60

VER.03-2017EN

In this handbook we are mentioning the instructions for the correct installation of our track system. This handbook is dedicated to be used by experienced and qualified technicians and it's not advisable for handymen or for using by unschooled personal.

The standard track system set is composed by following parts:

- * set of rails (vertical and horizontal)
- * necessary standard parts/ basic material for montage
- * fittings (hinges, wheels, etc.) from selected material
- * set of wires
- * torsion spring

Notice: Parts (bolts, etc.) required for mounting the tracks to the wall or for its hanging to the side wall or ceiling are not included.

Optional equipment

- * connecting/hanging profiles of horizontal rail set
- * upper sealing for montage to lintel

We are sure that you will successfully install the track system.

When you will have some questions or you will need to clear up any problem please don't hesitate to contact Kružík Ltd.

ATTENTION!

This handbook is dedicated to be used by experienced and qualified technicians and it's not advisable for handymen or for using by untrained personal. You have to implement safety measures during the installation of the setup. Pay attention especially to further noted safety and warning hints in order to avoid a danger of injury of involved persons. If you'll have any doubts contact the supplier.

! This handbook describes just the installation of the track system parts and it's necessary to complete it with instructions for the montage of any optional parts.

! Carefully read this handbook before beginning the installation.

! Some of the parts might be sharp or might have burrs.

We recommend using protective gloves.

! All supplied parts are engineered for using with up-and-over doors.

! Through the tension the springs can put out heavy forces. Work carefully. Use proper equipment. Respect that you stay in a stationary position.

! By the installation ensure enough light. Remove obstructions and dirtiness. Ensure that there is no one to assist except the mounters on the installation place.

Other persons (children) can be in the way through the installation and they could threaten themselves.

Equipment necessary for correct and fast installation

Electro-tools

Drilling machine
Impact drilling machine
Aku-drilling machine
grinder

tools

o-keys 10, 13, 14, 15, 17mm
gola set 10, 13, 17
set of imbus keys
nut 10, 13mm + prolonged bits adapter
combination pliers, gas pliers
hammer
air level
yardstick

pencil
2× bar for springs tensing
rope
2 blocks, appr. 20 and 40mm high
clips

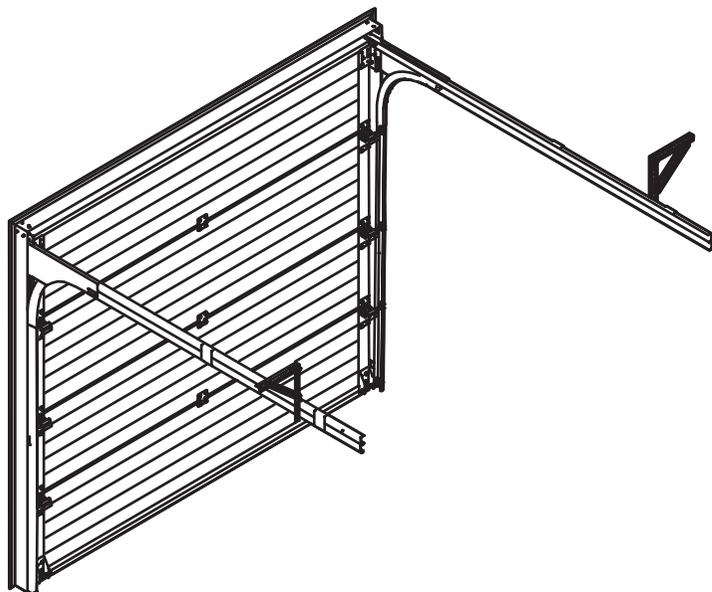
The construction conditions on the site are for sectional private and industrial doors installation and their further flawless operation essential!

- surface flatness

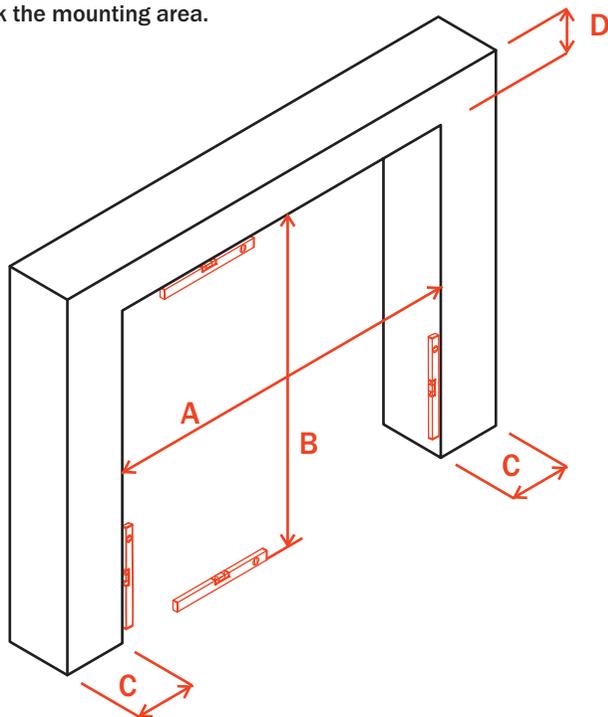
- for the sectional door installation the surface has to be even (side room, headroom, floor). Maximal allowed flatness variations for side room and headroom are +/-1mm, for the floor max. +/- 3mm at the entire width.

- masonry base for installation has to be solid and dry. In the mounting area is no electric wiring within the walls allowed.

- each larger unevenness of the mounting base can have a negative influence on the proper door operation. Use wall plugs with 12mm diameter to fix the sectional doors in the masonry wall.

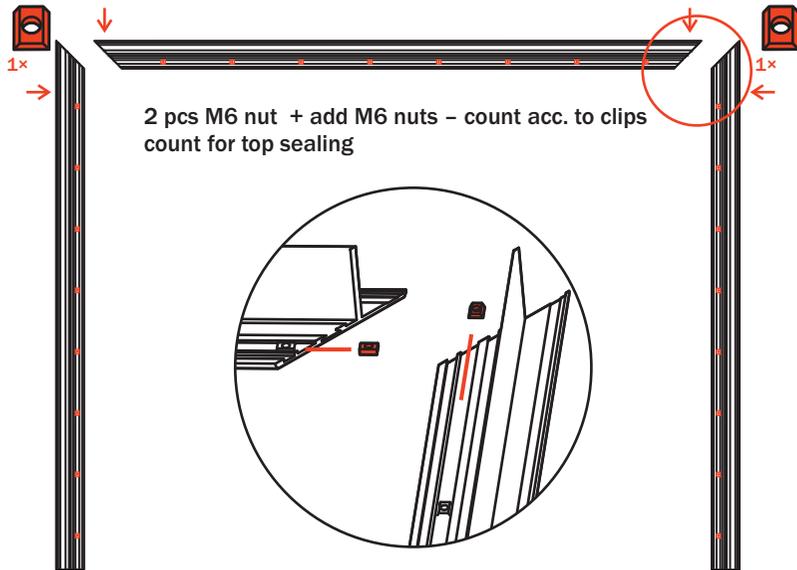


Prior to the installation check the mounting area.

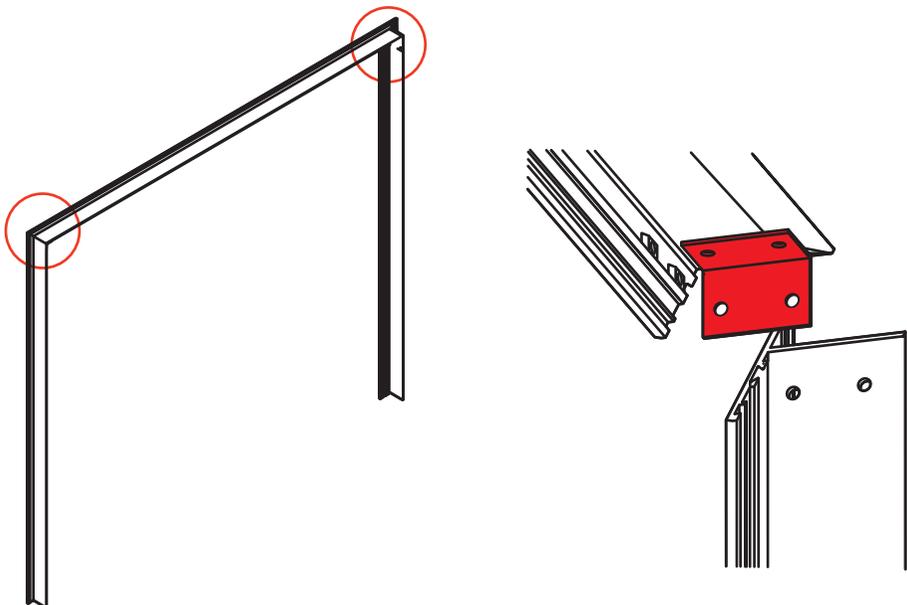


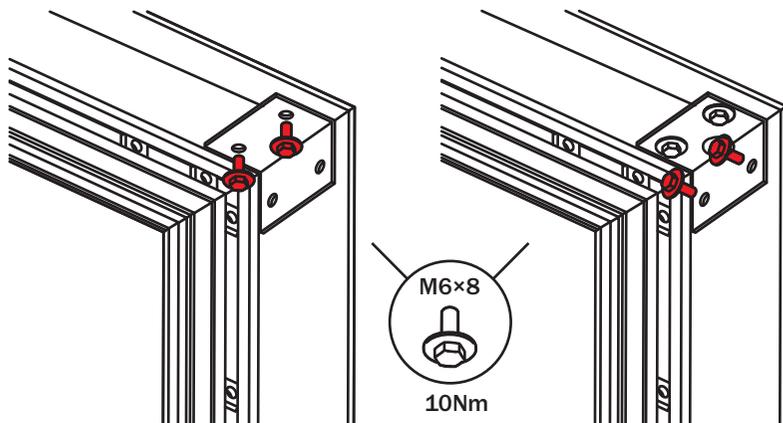
Setup before connecting the T-profiles

Insert a M6 nut into each vertical profile. Insert appropriate count of M6 nuts (acc. to clips count) + 2 nuts more into the horizontal profile.

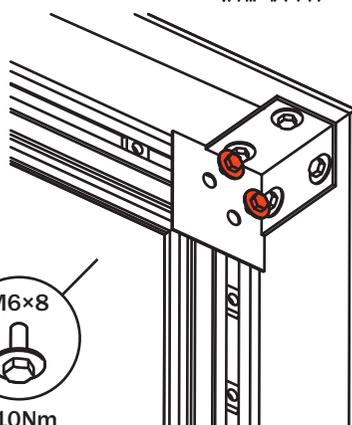
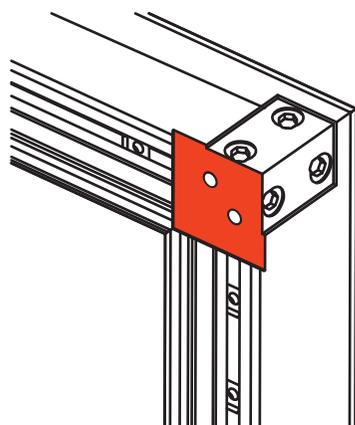
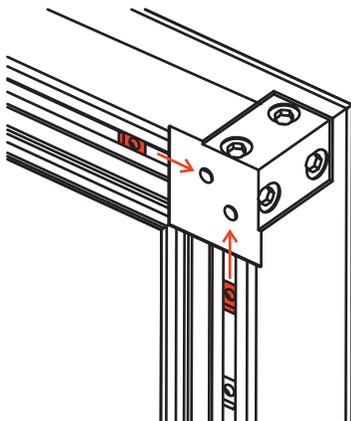
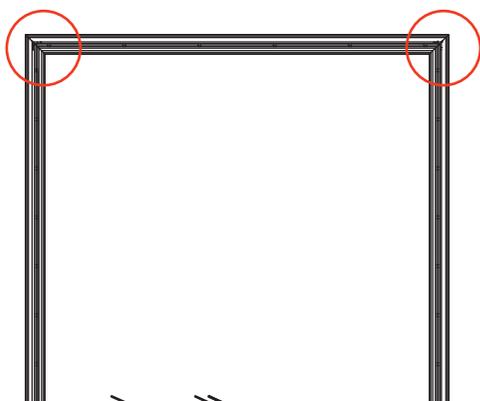


Set up the T-profiles in such way that they utmost align. From the inner side insert the L-profile and screw it together with **M6×8mm** bolts.



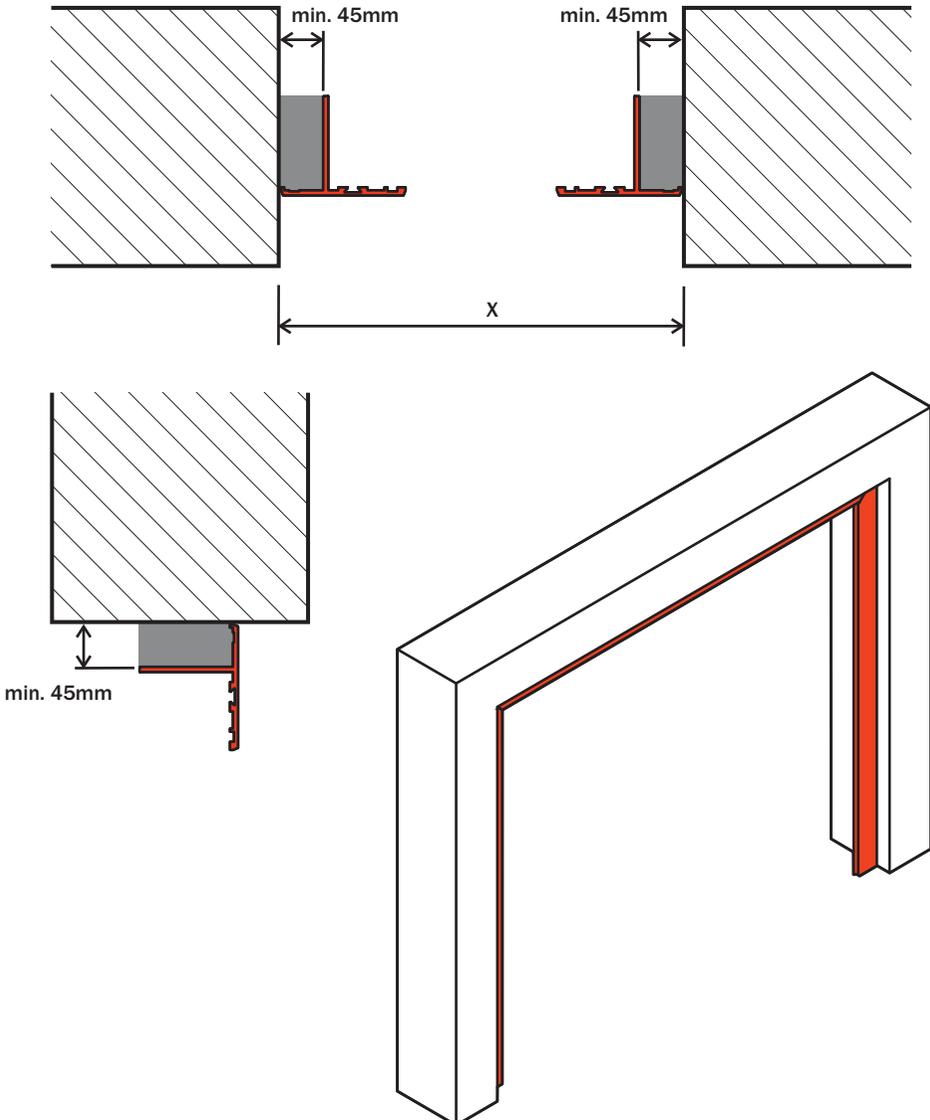


Insert the corner joints into the corners, slide the nuts under the holes and screw it together with M6x8mm bolts.

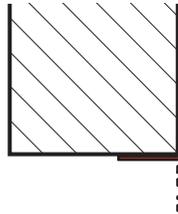
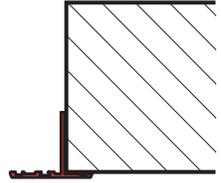
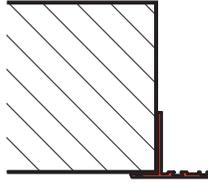
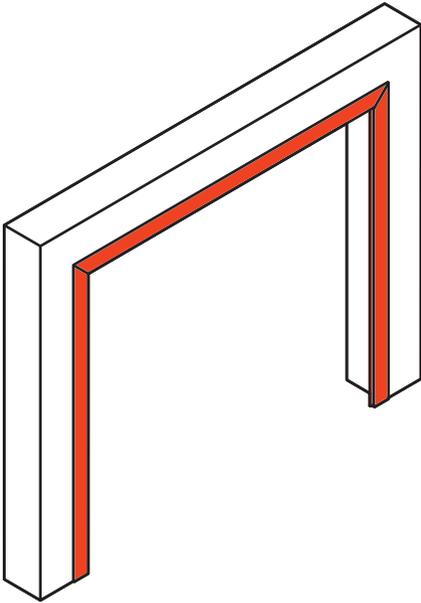


Mounting into the building opening on the existing frame

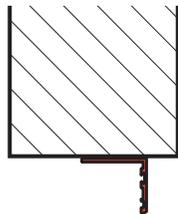
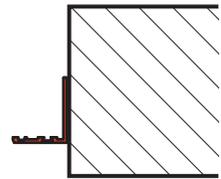
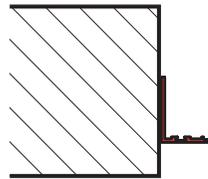
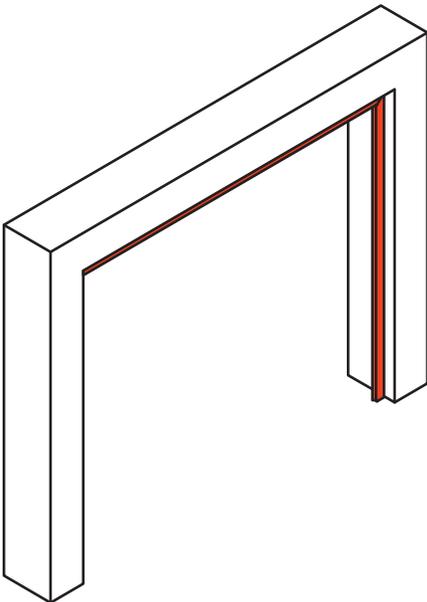
For the mounting into the building opening on the existing frame it is necessary a minimum frame width of 45mm. In case of narrower frame measure the size X and subtract it from the value 90mm; the gap between the frame and the T-profile has to be underlaid.



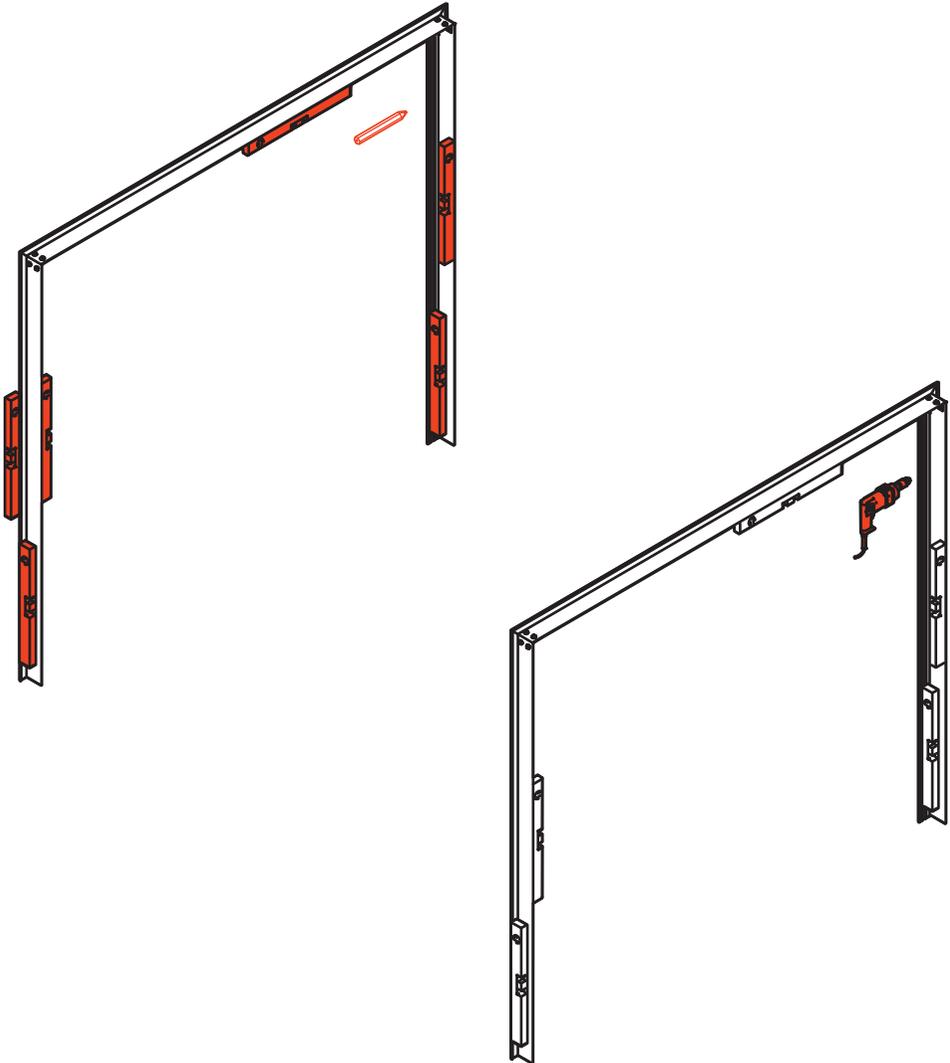
Mounting into the building opening on the outside opening



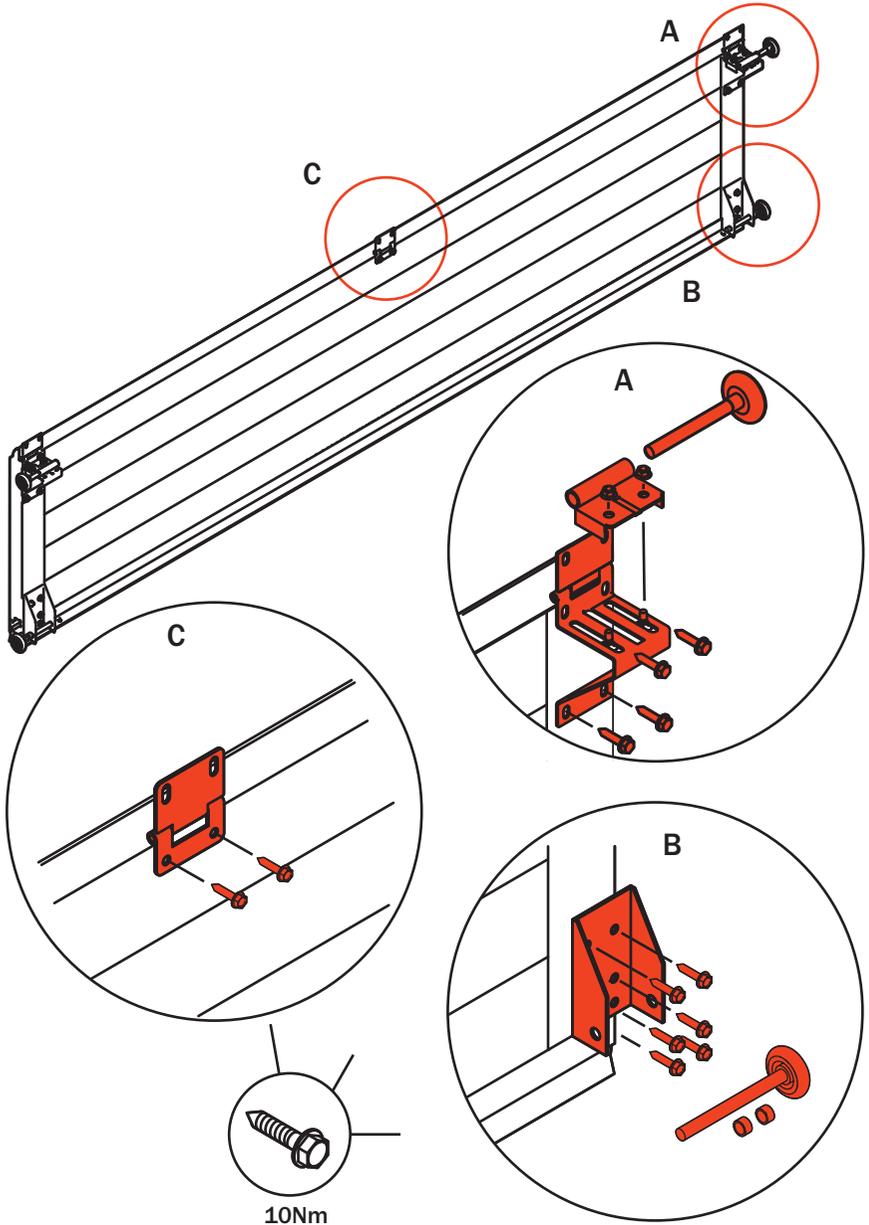
Mounting in the opening



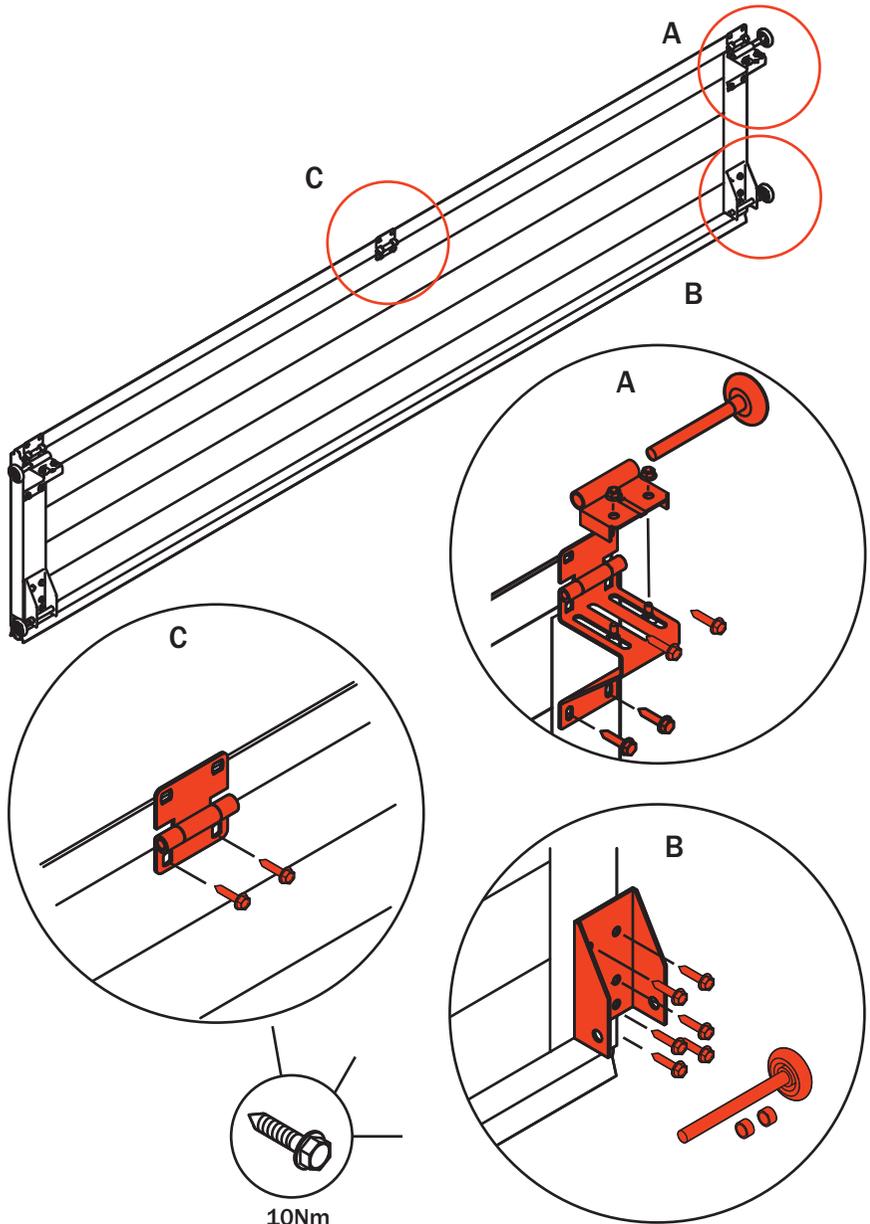
Insert the assembled frame from the outside into the opening, align it with the air level, mark and drill holes into the walling. Insert back the frame, re-align it and if necessary underlay it with supports and screw it on.



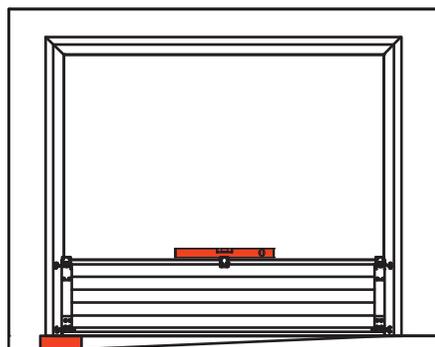
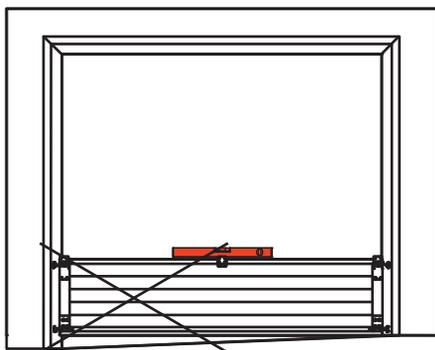
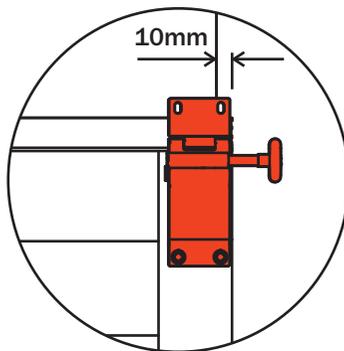
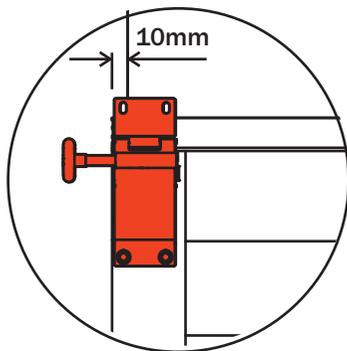
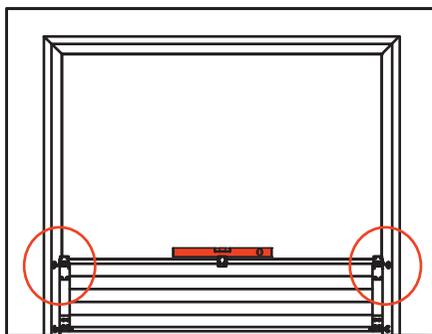
Installation of side hinges 25734, intermediate hinges 25733, slide a 15mm spacer ring on the bottom roller and put it into the bottom hinge.



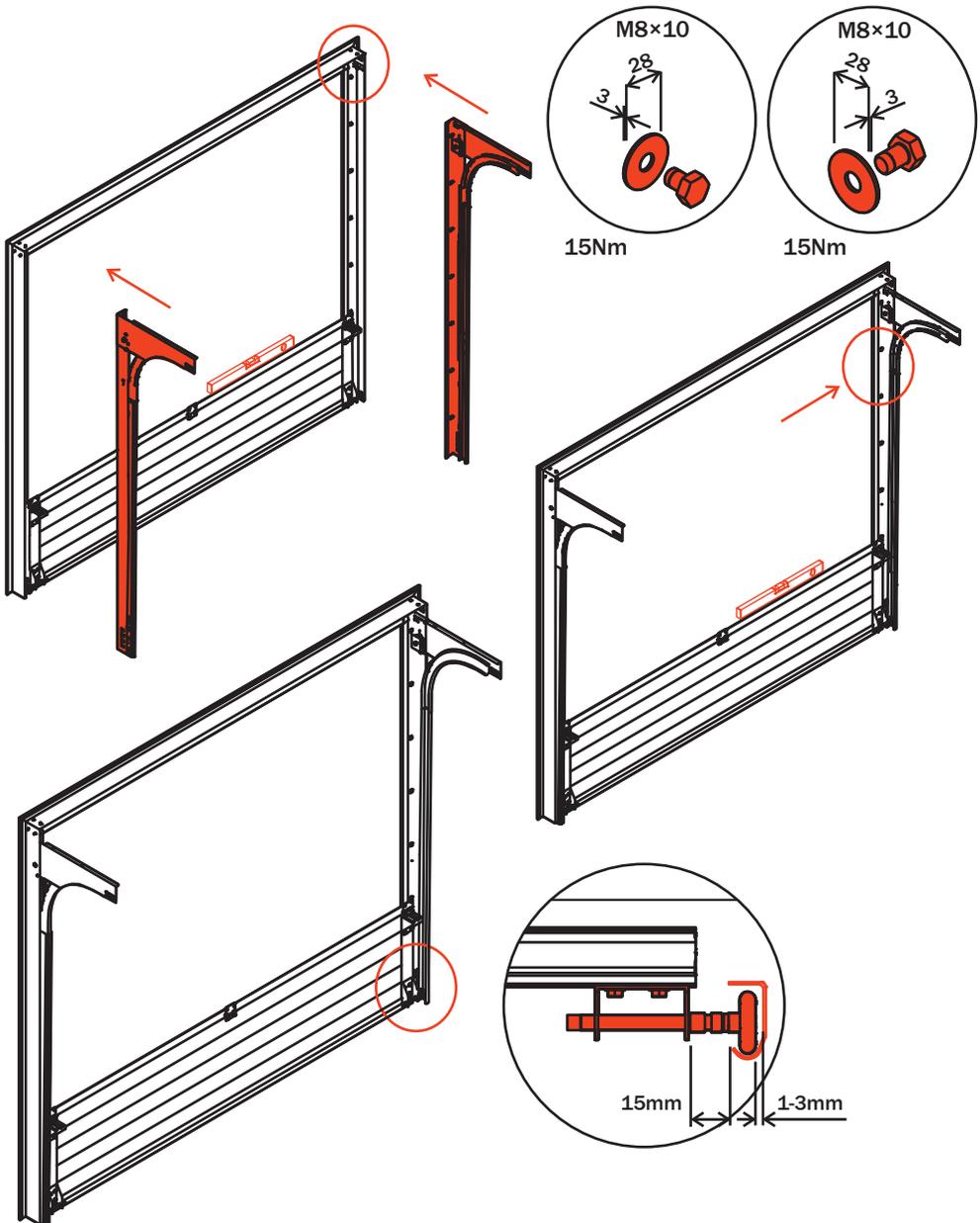
Installation of side hinges 450CZ+10, intermediate hinges 450HZ+10, slide a 15mm spacer ring on the bottom roller and put it into the bottom hinge.



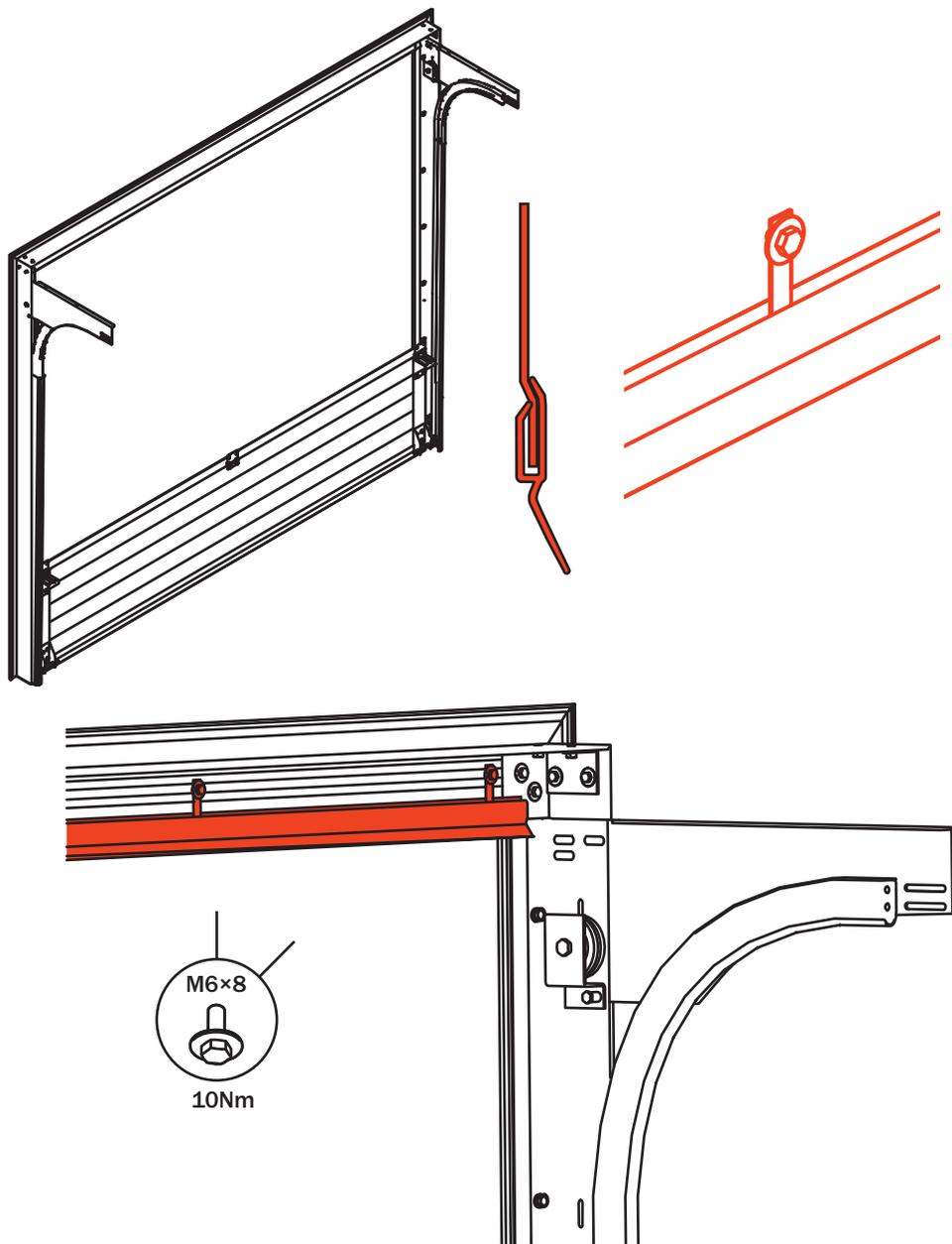
The section is to be inserted into the opening so that it laps over 10mm on each side. Put the rollers into the side and bottom hinges. Put 145mm long rollers into the bottom hinges with a 15mm spacer ring put on. The section in the opening is to be balanced by an air level. In case the floor is not even it is important to ensure that one of the sides will be chocked. The bottom section rollers have to be put into the vertical rails. The room between the bottom roll and the vertical rail has to be at least 1mm and max. 3mm. If necessary chock also the vertical rail in the same way as the bottom section.



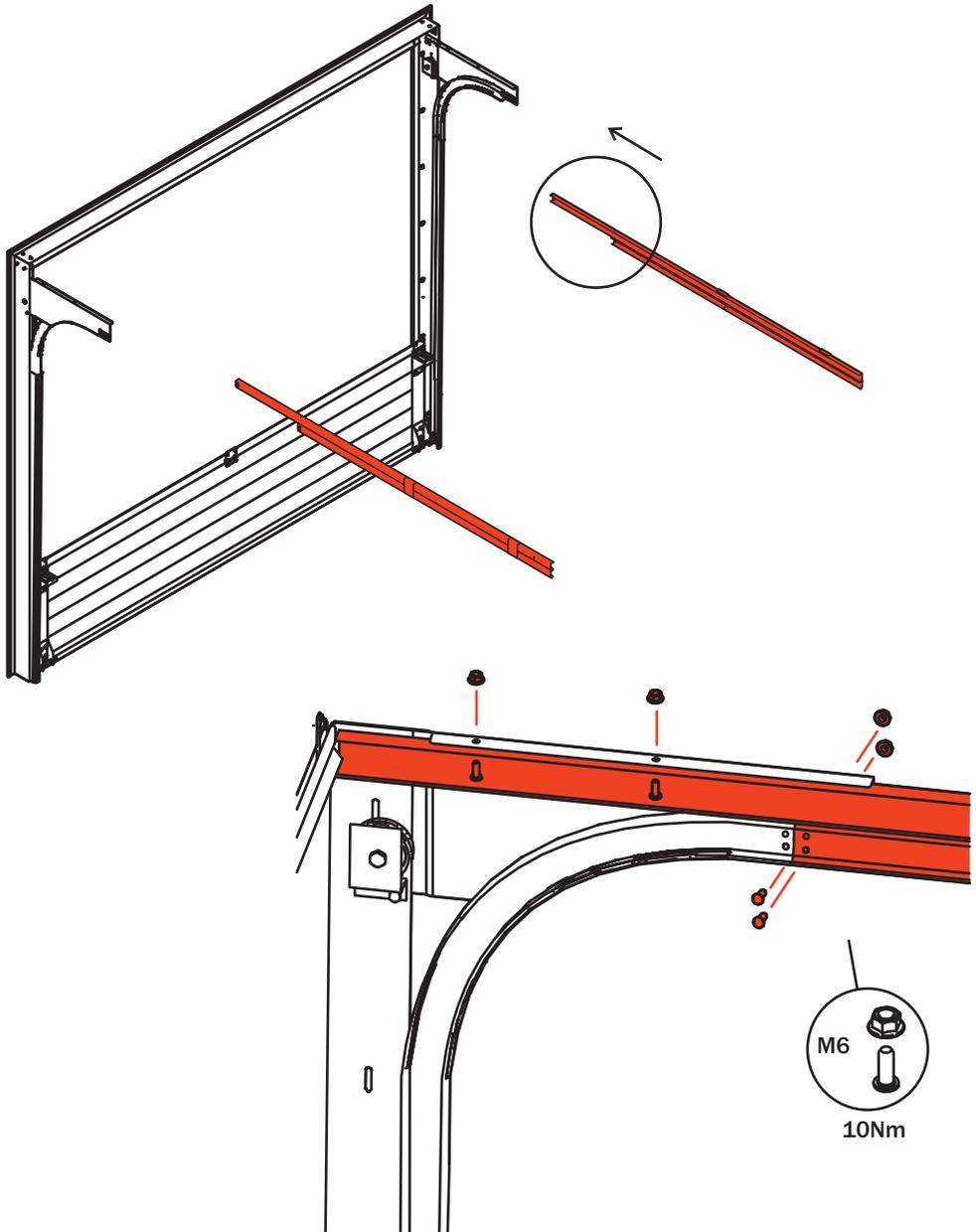
We continue further as for standard door installing. Bolt up on the vertical parts of the mounted frame the vertical rails with a **M8×10mm** bolt with applied washer **6mm/28×3mm**.



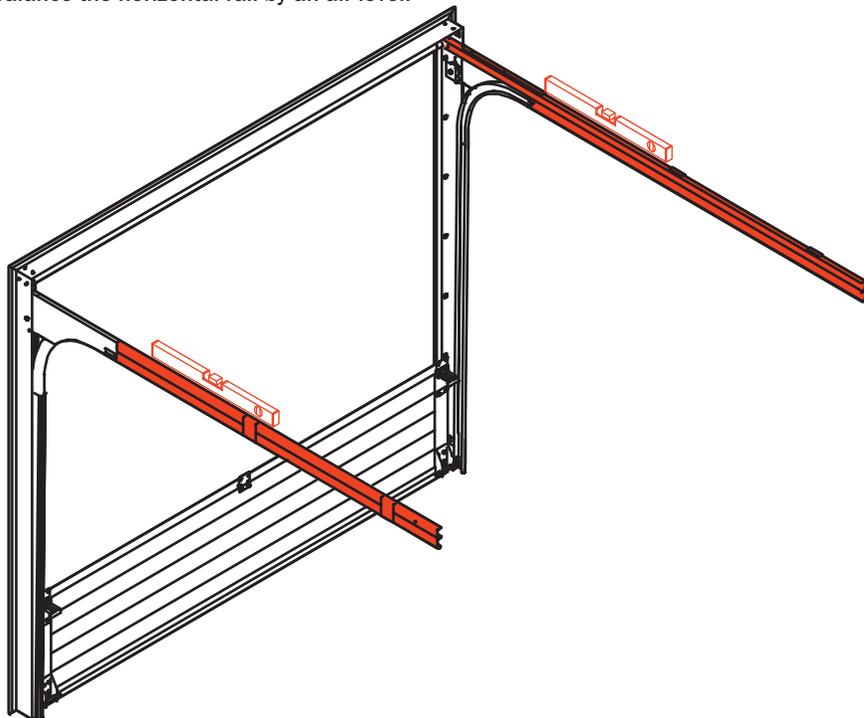
Cut the top sealing to necessary length and fasten them using clips and M6 bolts into the M6 nuts in the T-profile.



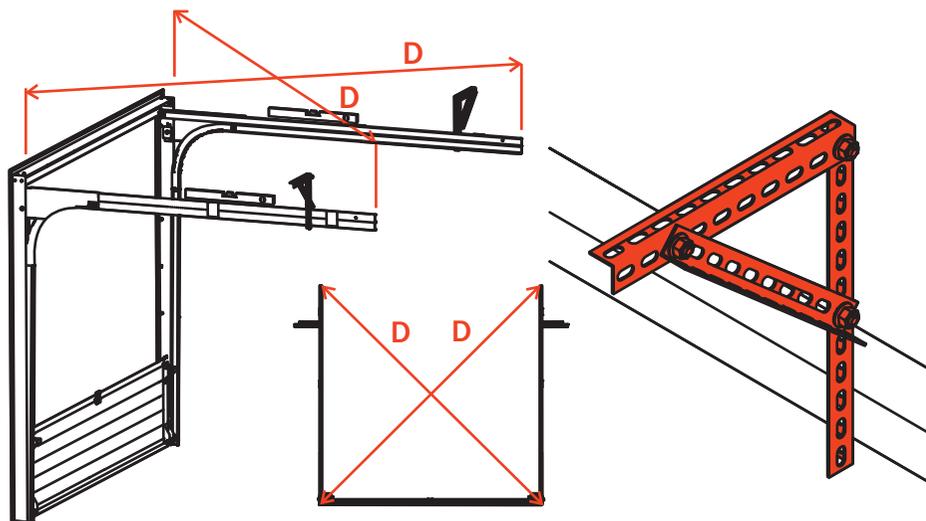
Put the horizontal rail into the vertical rail and fasten it with flathead bolts M6.



Balance the horizontal rail by an air level.

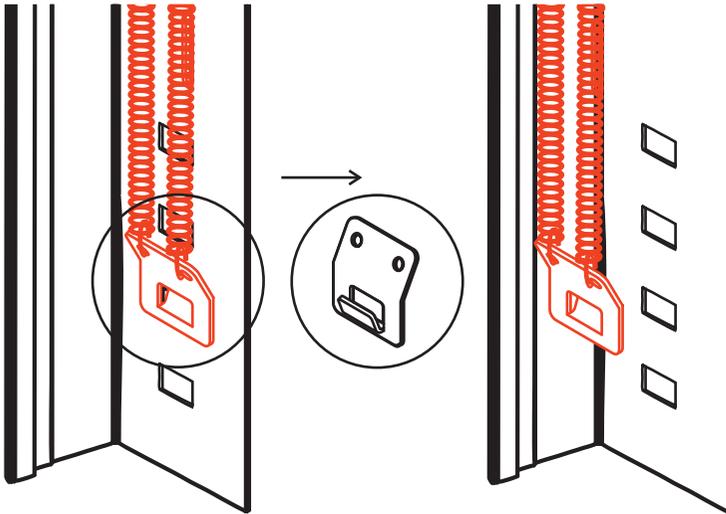


With a perforated mounting profile 30×30×2 fix the horizontal rails to the ceiling. Then inspect the diagonals, in case of necessity adjust the horizontal rails so that the diagonals are equal.

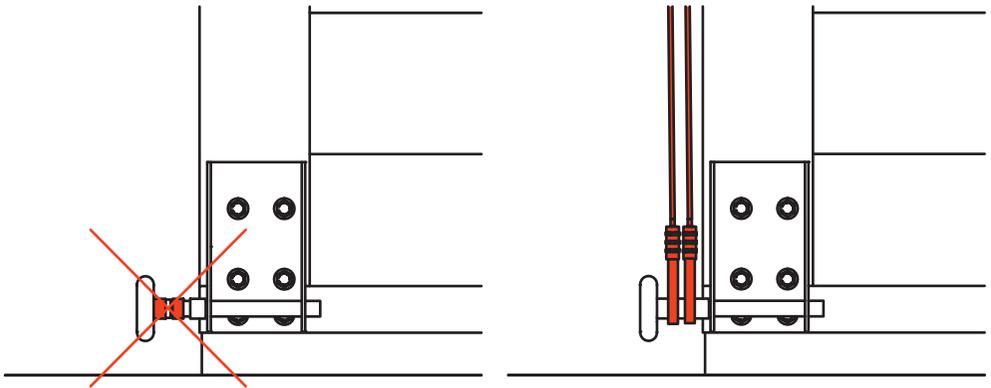


Wires installation

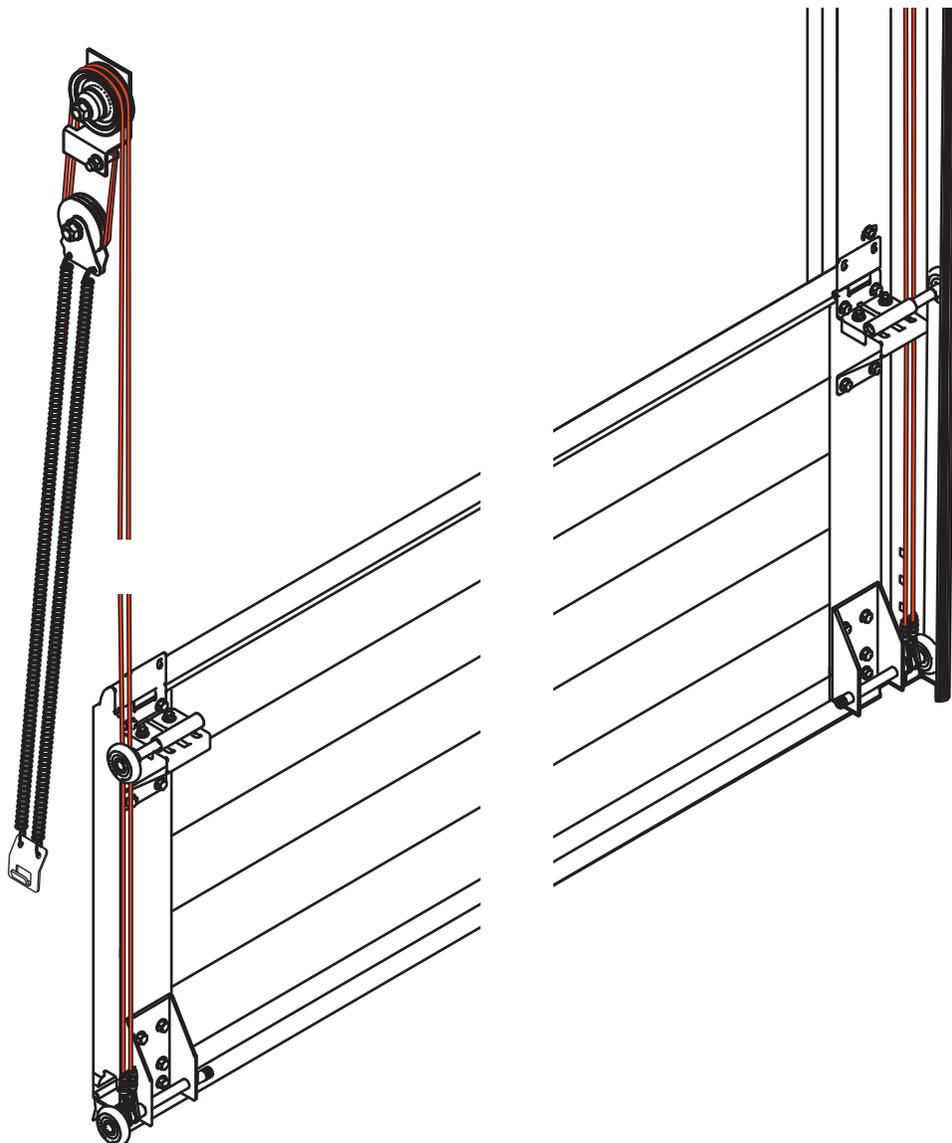
Unhook the springs from the vertical profile by pulling it down.



Unscrew the bottom hinges from the bottom section. Slide off the spacer rings, put on the steel wire. Put the rollers into the J-profile and screw the hinges on.

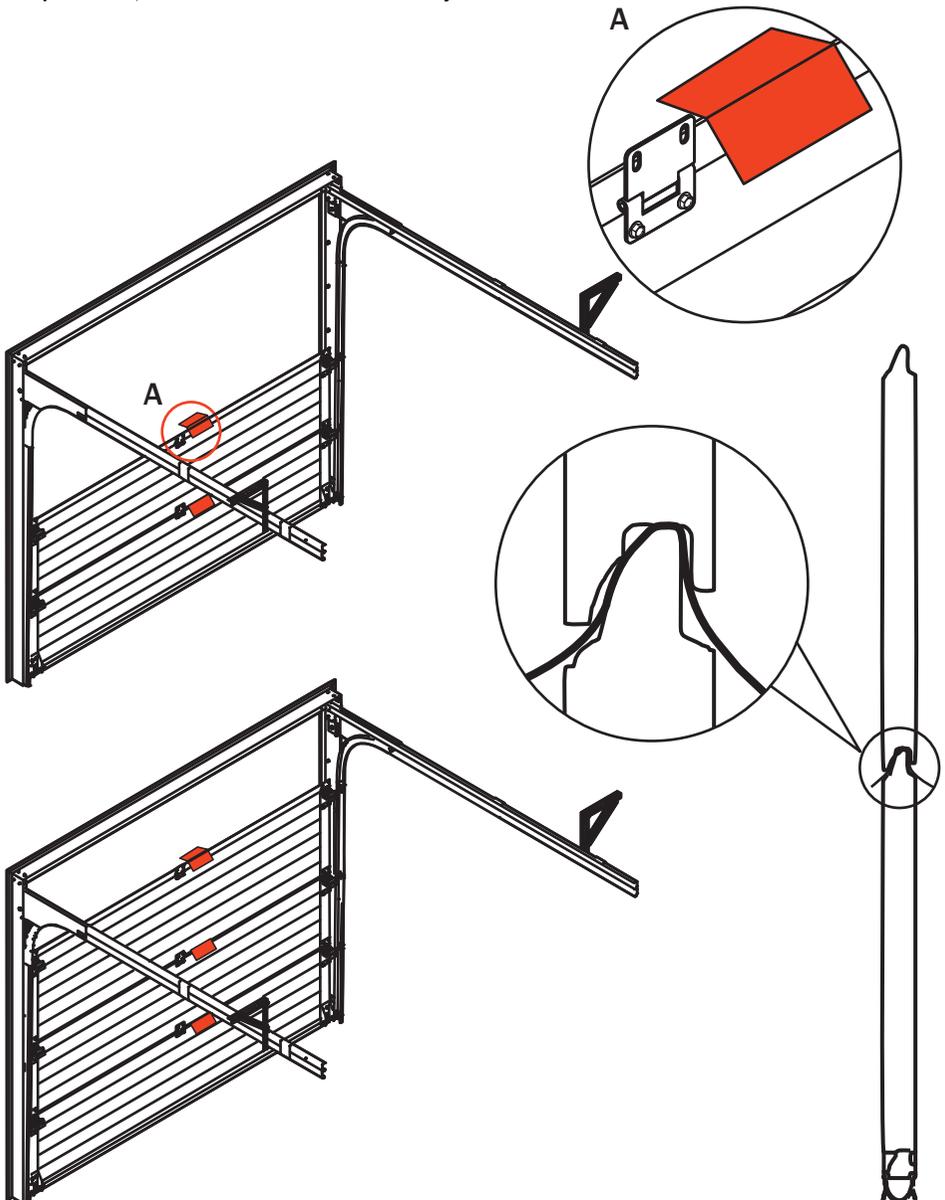


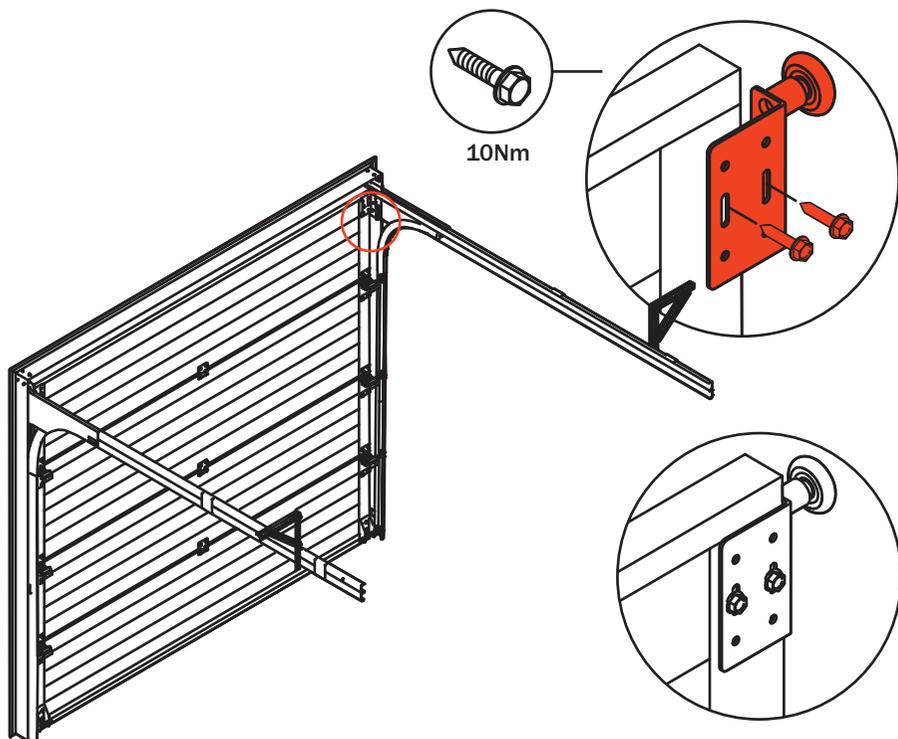
Let the extension spring hang freely in the vertical rails.



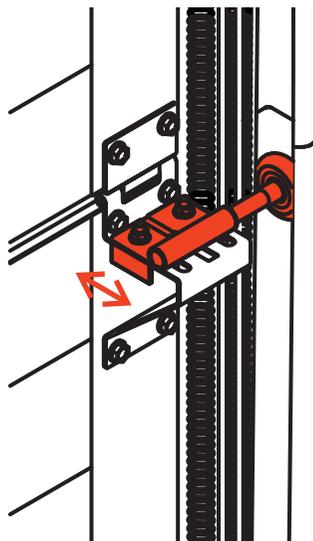
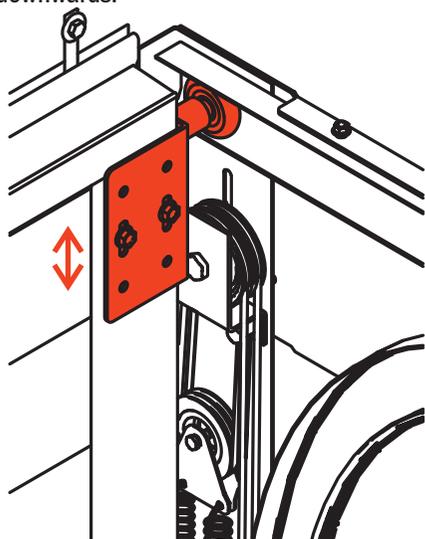
Distance washers should come in between the sections to each hinge, after lifting the doors they will be removed.

The sections 2,3 and top section come into the opening successively. Fix the upper hinge on the top section, so that the section sufficiently seals.

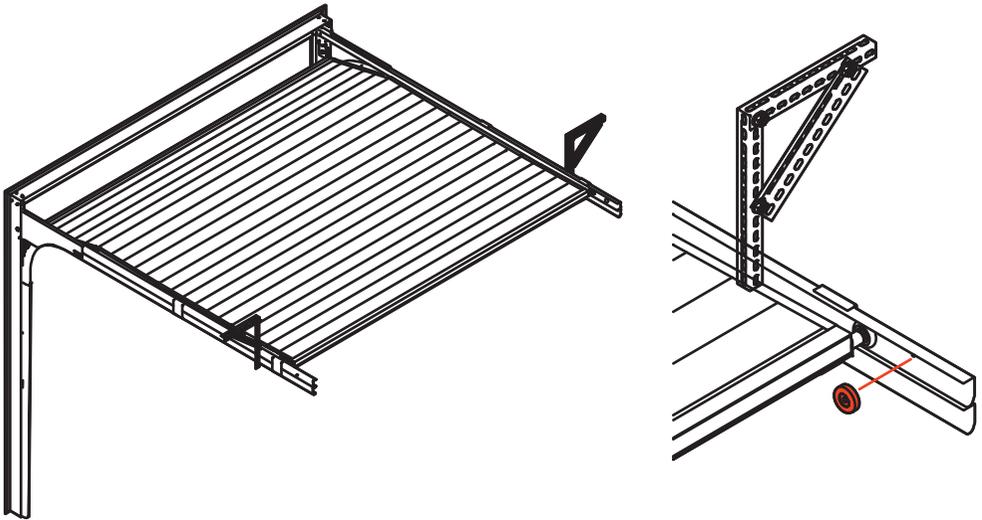




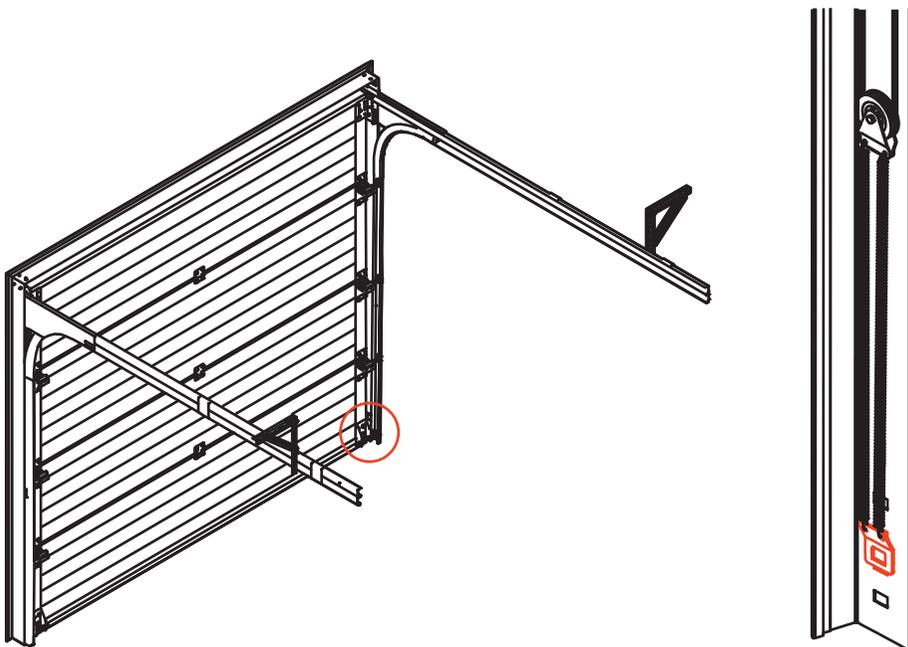
The side hinge will be adjusted, so that between the section and the side sealing there is a free motion of 1mm. Tightening the top section can be made by adjusting the upper hinge upwards or downwards.



After opening the doors the rubber backstop will be mounted into the horizontal rails.



Stretch the springs and hook the clip again onto the vertical rail. Unfix the door leaf and close it slowly. If the door doesn't run smoothly shift the clip up or down until the door is well balanced.



Instructions for demounting

The sectional door has to be closed before demounting!!!

Don't do demounting works until you don't cushion the torsion springs!!!

1) Torsion bars cushioning

First put the tension rod into the spring head and than disengage release the ensured screw on the torsion spring. Cushion the torsion spring and turn the spring head in its power wise until the spring power stops acting. For spring cushioning of garage doors we need two tension rods with a diameter 11,5mm and for industrial doors with a diameter 16mm.

2) Panel demounting

After the spring cushioning begin to demount the top, middle and side hinges. Begin to demount always from the top panel. After demounting the hinges on the panel remove it immediately. Repeat this procedure for all panels. Unscrew the winding wire by the lower panel hinge and also remove this section.

3) Demounting of torsion springs, drums and torsion bars

Disengage the ensured screws on the drums and the ratchet-wheel of spring break protection. Than unscrew the torsion springs from the spring break protections. In case of two shafts demount the coupler. When using an industrial door opener, it has to be demounted from the torsion shaft before removing the shaft. Move the shaft to one side to pull it out of the spring break device. Than take it down from the console.

4) Demounting the console and the spring break device

After demounting the torsion shaft demount the spring break devices and the consoles from the lintel.

5) Demounting the horizontal tracks

Unscrew the perforated mounting profiles from the ceiling and also the screws connecting the horizontal and the vertical tracks.

6) Demounting the vertical tracks

Unscrew the vertical tracks from the door opening.



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